

FILE ID**BASSTRING

3

```

BBBBBBBB  AAAA    SSSSSSSS  SSSSSSSS  TTTTTTTT  RRRRRRRR  IIIIIII  NN  NN  GGGGGGGG
BBBBBBBB  AAAA    SSSSSSSS  SSSSSSSS  TTTTTTTT  RRRRRRRR  IIIIIII  NN  NN  GGGGGGGG
BB      BB  AA    AA  SS    SS    TT    RR  RR  II    NN  NN  GG
BB      BB  AA    AA  SS    SS    TT    RR  RR  II    NN  NN  GG
BB      BB  AA    AA  SS    SS    TT    RR  RR  II    NNNN  NN  GG
BB      BB  AA    AA  SS    SS    TT    RR  RR  II    NNNN  NN  GG
BBBBBBBB  AA    AA  SSSSSS  SSSSSS  TT    RRRRRRRR  II    NN  NN  GG
BBBBBBBB  AA    AA  SSSSSS  SSSSSS  TT    RRRRRRRR  II    NN  NN  GG
BB      BB  AAAAAAAA  SS    SS    TT    RR  RR  II    NN  NNNN  GG  GGGGGG
BB      BB  AAAAAAAA  SS    SS    TT    RR  RR  II    NN  NNNN  GG  GGGGGG
BB      BB  AA    AA  SS    SS    TT    RR  RR  II    NN  NN  GG  GG
BB      BB  AA    AA  SS    SS    TT    RR  RR  II    NN  NN  GG  GG
BBBBBBBB  AA    AA  SSSSSSSS  SSSSSSSS  TT    RR  RR  IIIII  NN  NN  GGGGGG
BBBBBBBB  AA    AA  SSSSSSSS  SSSSSSSS  TT    RR  RR  IIIII  NN  NN  GGGGGG

```

```
1 0001 0 MODULE BASS$STRING (                                ! Duplicate a character in a string
2 0002 0 IDENT = '1-002'                                ! File: BASS$STRING.B32
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1 ****
6 0006 1 ****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
9 0009 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
10 0010 1 * ALL RIGHTS RESERVED.
11 0011 1 *
12 0012 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
13 0013 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
14 0014 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
15 0015 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
16 0016 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
17 0017 1 * TRANSFERRED.
18 0018 1 *
19 0019 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
20 0020 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
21 0021 1 * CORPORATION.
22 0022 1 *
23 0023 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
24 0024 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
25 0025 1 *
26 0026 1 *
27 0027 1 ****
28 0028 1 .
29 0029 1 ++
30 0030 1 *+
31 0031 1 * FACILITY: String support library
32 0032 1 *
33 0033 1 * ABSTRACT:
34 0034 1 *
35 0035 1 * This routine fills a string with an input number (defaults to
36 0036 1 * the string's current length) of an input character (defaults to
37 0037 1 * space).
38 0038 1 *
39 0039 1 * ENVIRONMENT: User mode, AST level or not or mixed
40 0040 1 *
41 0041 1 * AUTHOR: R. Will, CREATION DATE: 13-Mar-79
42 0042 1 *
43 0043 1 * MODIFIED BY:
44 0044 1 *
45 0045 1 * R. Will, 13-Mar-79: VERSION 01
46 0046 1 * 01 - original
47 0047 1 * 1-002 - Use STR$K FILL CHAR. JBS 15-APR-1979
48 0048 1 * 1-003 CALL STR$CUPL_CHAR DELETE WHEN COMPILER CALLS STR$> RW 7_nov-79
49 0049 1 *--
50 0050 1 *
51 0051 1 !<BLF/PAGE>
```

```
53 0052 1 | SWITCHES:  
54 0053 1 |  
55 0054 1 |  
56 0055 1 |  
57 0056 1 | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);  
58 0057 1 |  
59 0058 1 |  
60 0059 1 | LINKAGES:  
61 0060 1 |  
62 0061 1 |  
63 0062 1 |  
64 0063 1 | TABLE OF CONTENTS:  
65 0064 1 |  
66 0065 1 |  
67 0066 1 | FORWARD ROUTINE  
68 0067 1 | BASS$STRING : NOVALUE; ! fill a string with a character  
69 0068 1 |  
70 0069 1 |  
71 0070 1 | INCLUDE FILES:  
72 0071 1 |  
73 0072 1 |  
74 0073 1 | REQUIRE 'RTLIN:RTLPSECT'; ! Use to declare PSECTs  
75 0168 1 |  
76 0169 1 |  
77 0170 1 |  
78 0171 1 | MACROS: NONE  
79 0172 1 |  
80 0173 1 |  
81 0174 1 | EQUATED SYMBOLS: NONE  
82 0175 1 |  
83 0176 1 |  
84 0177 1 | PSECT DECLARATIONS  
85 0178 1 |  
86 0179 1 | DECLARE_PSECTS (BAS);  
87 0180 1 |  
88 0181 1 | OWN STORAGE: NONE  
89 0182 1 |  
90 0183 1 |  
91 0184 1 | EXTERNAL REFERENCES:  
92 0185 1 |  
93 0186 1 |  
94 0187 1 | EXTERNAL ROUTINE  
95 0188 1 | STR$DUPL_CHAR;  
96 0189 1 |
```

```

0190 1 GLOBAL ROUTINE BAS$STRING (DEST_DESC,
0191 1           LENGTH,
0192 1           INPUT_CHAR)
0193 1           : NOVALUE =
0194 1
0195 1           ++
0196 1           FUNCTIONAL DESCRIPTION:
0197 1           This routine writes LENGTH characters of CHAR into the string pointer
0198 1           to by DEST_DESC. If the destination is a fixed length string, and
0199 1           LENGTH is greater than the length of the string, only as many CHARs as
0200 1           will fit are copied. If destination is fixed length and LENGTH is
0201 1           less than the destination string length then LENGTH CHARs are copied
0202 1           and the destination is padded with blanks. If the destination is
0203 1           a dynamic string, after execution of this routine the destination will
0204 1           have a length of LENGTH.
0205 1
0206 1           FORMAL PARAMETERS:
0207 1
0208 1           DEST_DESC.wt.dx      pointer to destination string descriptor
0209 1           LENGTH.rl.v       value of number of characters to duplicate
0210 1           INPUT_CHAR.rb.v  value of ASCII character to duplicate
0211 1
0212 1           IMPLICIT INPUTS:
0213 1
0214 1           NONE
0215 1
0216 1           IMPLICIT OUTPUTS:
0217 1
0218 1           NONE
0219 1
0220 1           ROUTINE VALUE:
0221 1           COMPLETION CODES:
0222 1
0223 1           NONE
0224 1
0225 1           SIDE EFFECTS:
0226 1
0227 1           NONE
0228 1
0229 1           --
0230 1
0231 1           BEGIN
0232 1
0233 1           LOCAL
0234 1           CHAR : BYTE;
0235 1
0236 1           BUILTIN
0237 1           ACTUALCOUNT;
0238 1
0239 1           MAP
0240 1           DEST_DESC : REF BLOCK [8,BYTE];
0241 1
0242 1           IF ACTUALCOUNT () EQLU 3 THEN CHAR = .INPUT_CHAR ELSE CHAR = ' ';
0243 1
0244 1           STR$DUPL_CHAR (DEST_DESC [0,0,0,0], LENGTH, CHAR);
0245 1           END;

```

```

        .TITLE BASS$STRING
        .IDENT \1-002\

        .EXTRN STR$DUPL_CHAR

        .PSECT _BASS$CODE,NOWRT, SHR, PIC.2

        .ENTRY BASS$STRING, Save nothing
        SUBL2 #4, SP
        CMPB (AP), #3
        BNEQ 1$
        MOVBL INPUT_CHAR, CHAR
        BRB 2$
        MOVBL #32, CHAR
        PUSHL SP
        PUSHAB LENGTH
        PUSHL DEST_DESC
        CALLS #3, STR$DUPL_CHAR
        RET

0190
0242
0244
0245

```

; Routine Size: 35 bytes, Routine Base: _BASSCODE + 0000

154 0246 1
155 0247 1 END
156 0248 1
157 0249 0 ELUDOM

!End of module

PSECT SUMMARY

Name	Bytes	Attributes
<u>BASS\$CODE</u>	35	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LISS:BASSTRING/OBJ=OBJ\$:BASSTRING MSRC\$:BASSTRING/UPDATE=(ENH\$:BASSTRING
)

Size: 35 code + 0 data bytes
Run Time: 00:01.9
Elapsed Time: 00:03.5
Lines/CPU Min: 7781
Lexemes/CPU-Min: 20687
Memory Used: 22 pages

BASS\$STRING
1-002

H 3
16-Sep-1984 01:16:34 VAX-11 Bliss-32 V4.0-742

Page 5

: Compilation Complete

0032 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

BASSTRING
LIS

BASTERMIO
LIS

BASTRM
LIS

BASUDFWE
LIS

BASTAB
LIS

BASUDFRM
LIS

BASSYS
LIS

BASSTR
LIS

BASUDFR
LIS